BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to roads and Drains of Somanna Matta road in Chamundeswari Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

							Estimate Cost:		1500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2014-16**	Cum							
	for Road Work		1	150.00	5.60	0.15	126.00		
	For Drain RHS		1	140.00	1.00	1.00	140.00		
							266.00	83.16	**22121.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	Bottom Concrete		1	140.00	1.00	0.15	21.00		
							21.00	5070.60	**106483.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
	Bottom Concrete		1	140.00	0.90	0.15	18.90		
	Side Wall		2	140.00	0.15	0.60	25.20		
							44.10	6198.12	**273337.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							
4	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	For Roof, Columns @ 90 Kg / Cum		0.06	44.10			**2.65**	69805.80	**184706.00**
	Basic Rate	64635.00							
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	Side Wall		4	140.00		0.60	336.00		
							336.00	306.72	**103058.00**
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	**306.72**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including [illegible]ing curing etc, complete7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2015-16**	Sqm							
	For Covering Slab		1	140.00		0.90	126.00	663.12	83553.00
		614					**126.00**	642.60	**80968.00**
	Basic Rate	595.00							
	Area Weightage @ 8%	47.60	49.12						
	Total	**642.60**	663.12						
7	KSRB 5-9: Providing chamfering edges to stone slab 2.5cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 24 / Item No. 5.22 / PWD SR 2015-16**	m							
			233	3.00			**700.00**	35.64	**24948.00**
	Basic Rate	33.00							
	Area Weightage @ 8%	2.64							
	Total	**35.64**							
8	KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5-1.13 **Page No. 24 / Item No. 5.18 / PWD SR 2015-16**	Sqm							
			1	140.00		0.90	126.00		
							126.00	924.48	**116484.00**
	Basic Rate	856.00							
	Area Weightage @ 8%	68.48							
	Total	**924.48**							
9	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 147 / Item No. 19.60 / PWD SR 2015-16**	Cum							
			1	150.00	5.60	0.15	126.00		
							126.00	311.04	**39191.00**
	Basic Rate	288.00							
	Area Weightage @ 8%	23.04							
	Total	**311.04**							
10	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	150.00	5.60	0.20	168.00		
							168.00	1713.96	**287945.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
11	KSRRB 500-1. Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5 \, **Page No. 160 / Item No. 21.1 / PWD SR 2015-16**	Sqm							
			1	150.00	5.60		840.00		
							840.00	12.96	**10886.00**
	Basic Rate	12.00							
	Area Weightage @ 8%	0.96							
	Total	**12.96**							
12	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 04				**840.00**	32.40	**27216.00**
	Basic Rate	30.00							
	Area Weightage @ 8%	2.40							
	Total	**32.40**							
13	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **with 100-120 TPH capacityH.M.P with sensor paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen Page No. 162 / Item No. 21.20.2 / PWD SR 2015-16**	Cum							
			1	150.00	5.60	0.025	21.00		
							21.00	8469.36	**177857.00**
	Basic Rate	7842.00							
	Area Weightage @ 8%	627.36							
	Total	**8469.36**							
14	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** (PWD SR Rates P No 139)	Cum							
			Qty Vide Item No. 1				**266.00**	106.34	**28286.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1** P-133 PWD SR	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
15	Sub Total								1486350 **1483486.00**
16	For Third Part QC inspection Charges @ 1% of Estimate Cost								13650 **14835.00**
17	Miscellaneous and other Charges	L/S							0.50 **1679.00**
								Total	**1500000.00**
	(Rs. Fifteen Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 This work included under 2015-16 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For 15,00,000/-
Head of A/C P-1771
CER NO 66 **Dt:** 14.12.2015

TA **CE (YNK)**

TECHNICAL SANCTION
Accorded For Rs. 15,00,000/-
Head of A/c. P-1771
Div. Ref. No. 243 Date. 14.12.15
AE
EE(BTP) 15/12